Row 1 Administrative Data	Reporter Name Simone Seifert-Higgins		Submission date. September 1, 2016	Contact person (if different than reporter) Inte		rter) Internal ID 32365714	
	Address Monsanto Company Mail Stop C3NA 800 N Lindbergh Blvd. St. Louis, MO 63167			Address Missouri Regional Poison Center (MRPC) 7980 Clayton Road, Suite 200 St. Louis, MO 63117			
	Phone # (314) 694-1538	3		Phone # (314) 772-8300			
			ee, Canada	Date registran	Date registrant Was incident part of large necame aware of neident.		
Row 2	EPA Registration # (Pr	oduct 1)	EPA Registrati	on # (Product	2) EPA Registra	tion # (Product 3 & 4	
Pesticide(s) Involved	PMRA # 24299			El A Registration # (1 founct 2)			
	A.I. (s) Glyphosate 1%		A.I. (s)		A.I. (s)	A.I. (s)	
	Product 1 Name Roundup Fast-Acting Ready to Use Weed & Grass Control (Canada)		Product 2 Name		Product 3&4 N	Product 3&4 Name	
	Exposed to concentrate prior to dilution? Y N U X NA		Exposed to concentrate prior to dilution? Y N U NA		Exposed to cordilution? Y	Exposed to concentrate prior to dilution? Y N U NA	
	Formulation		Formulation		Formulation	Formulation	
Row 3 Incident Circumstances	directions were not followed? Yes surface water building/off		e: (examples include home, l, industrial, nursery/greenhouse, er, commercial turf, fice, forest/ woods, agricultural pp) right-of-way (rail, utility, home		Situation (act of using product): (examples include mixing/loading, reentry, application, transportation, repair/ maintenance of application equipment, manufacturing/ formulating). See MRPC incident report (next page)		
	PCO? Yes No U X						
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff) See MRPC incident report (next page)	Brief descri	ption of incident c	ircumstances,	See MRPC incident re	port (next pago)	

Substance:	Roundup Fast-Acting Ready to Use Grass and Weed Control from Monsanto <canada></canada>
Serial Number:	32365714
Date:	07/26/2016
Medical Outcome:	Moderate Effect H-C
EPA Reg. No.	24299
Active Ingredients:	Glyphosate 1%
State:	Quebec, Canada
History and Notes:	Scott's Company calling about an e-mail that was received on 07-14-16. A customer wrote that she had gotten Roundup on her lip after using it for some weeks. This was written in French and it has taken until this time to be translated. Scott's Company to e-mail the translated communication to the MRPC. On 7-29-16, MRPC received the interpreted e-mail from Scott's Company stating the woman touched her lips while using Roundup Fast Act. The next morning, the area of contact felt a little hot, but she believed it was due to a slight sunburn. Since then, her lips have not stopped getting hot and now are changing color to a dark brown. They have become very irritated to where it is almost unbearable. She has seen a doctor, but he has no idea what to do. MRPC consulted with toxicologist Dr. Tominack, medical director. The symptoms are possibly related to a reaction to the sunlight or an allergic reaction to one of the ingredients in the products. This could result in the inflammation which is causing the hot feeling, and the resulting brown discoloration may be caused by the inflammation itself. However, the active process should be long cleared up by this time. MRPC suggested, if the symptoms are still occurring that the ongoing effects may be related to a product being used to help relieve the symptoms. MRPC recommended to stop use of any products on the lips and to make sure the lips are protected from the sunlight to help stop the brown discoloration. MRPC offered to discuss further with the woman and her physician with assistance from an interpreter. The woman responded per e-mail that she is following MRPC advice and will not apply any medication to the area. She has seen three physicians and will see a dermatologist on 6/6/16. She will take information on the product and the phone number. She slated the hot sensation continues and it burns. She will follow up with the center after her appointment with the dermatologist. MRPC was unable to obtain any further follow-up on the case.

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Row 1 Reporter Name Submission Contact person (if different than reporter) Internal ID date. 32362487 Administrative Simone Seifert-Higgins September Joy Thompson Data 1,2016 Address Address Monsanto Company Missouri Regional Poison Center (MRPC) Mail Stop C3NA 7980 Clayton Road, Suite 200 800 N Lindbergh Blvd. St. Louis, MO 63117 St. Louis, MO 63167 Phone # (314) 694-1538 Phone # (314) 772-8300 Incident Status: Was incident part of larger study? Y Location and date of incident. Date registrant New X Update (City, County, State) became aware of $N \times U$ If update, include date State: Missouri incident. of original submission. Date: 7/7/2016 July 2016 Row 2 EPA Registration # (Product 1) EPA Registration # (Product 2) EPA Registration # (Product 3 & 4) Pesticide(s) 524-445 Involved A.I. (s) A.I. (s) A.I. (s) Glyphosate 41% Product 1 Name Product 2 Name Product 3&4 Name Roundup Herbicide Exposed to concentrate prior to Exposed to concentrate prior to Exposed to concentrate prior to dilution? Y N U X NA dilution? Y N U dilution? Y N U NA Formulation Formulation Formulation Row 3 Evidence label Incident site: (examples include home, Situation (act of using product): (examples directions were not yard, school, industrial, nursery/greenhouse, include mixing/loading, reentry, application, Incident followed? Yes surface water, commercial turf, transportation, repair/ maintenance of No X U Circumstances building/office, forest/ woods, agricultural application equipment, manufacturing/ Intentional misuse No (specify crop) right-of-way (rail, utility, formulating). See MRPC incident report highway), agricultural (next page) Applicator certified PCO? Yes No U How exposed: Brief description of incident circumstances. See MRPC incident report (next page) (examples include direct contact with treated surface. ingestion, spill, drift, runoff) See MRPC incident report (next page)



Substance:	Roundup Herbicide from Monsanto
Serial Number:	32362487
Date:	07/07/2016
Medical Outcome:	Moderate Effect H-C
EPA Reg. No.	524-445
Active Ingredients:	Glyphosate 41%
State:	Missouri
History and Notes:	ED RN calling about a 16 year old male who works on a farm. The teen states he mixed Roundup and Liberty herbicide together, and has been spraying them on the fields for the past 2 days without the use of a respirator. The teen began having symptoms of shortness of breath, and chest pressure this morning. He was brought to the ED this evening. The teen has been given 2 Albuterol nebulizer treatments, and 8 mg Dexamethasone IM. He was given 2 L IV fluids. The teen has had 2 chest x-rays done; the physician thought the second CXR looked worse than the first one. The teen was afebrile initially, temp is now 100.4 F. HR had been in the 100s, and is now 93 bpm. Oxygen saturations have remained 90-93% on room air. MRPC discussed the product toxicity of Roundup. The symptoms do not correlate with the expected response to the product. Advised to continue with supportive and symptomatic care. On follow up, the teen was diagnosed with pneumonitis and was started on oxygen at 2 L. The teen said he felt better than when he first arrived to the ED. On follow up the next morning the teen had been discharged to home. Lungs were clear this morning. Oxygen was discontinued. Heart rhythm NSR.

Voluntary Industry Reporting Form for 6(a)(2) Adverse Effects Incident Information

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area.

Row I Administrative Data	Reporter Name Simone Seifert-Higgins		Submission date. September 1, 2016	Contact person (if different than reporter) Joy Thompson		Internal ID 32364014	
	Address Monsanto Company Mail Stop C3NA 800 N Lindbergh Blvd. St. Louis, MO 63167 Phone # (314) 694-1538			Address Missouri Regional Poison Center (MRPC) 7980 Clayton Road, Suite 200 St. Louis, MO 63117 Phone # (314) 772-8300			
			ıri -	Date registrant became aware incident. July 2016		Vas incident part of larger study? Y	
Row 2	EPA Registration # (Pr	oduct 1)	EPA Registrati	on # (Product 2) EPA Registr:		(Product 3 & 4	
Pesticide(s) Involved	524-445 524-517						
	A.I. (s) Glyphosate 41% Glyphosate 41%		A.I. (s)		A.I. (s)	A.I. (s)	
	Product I Name Roundup Herbicide Ranger Pro Herbicide		Product 2 Name		Product 3&4 Name	Product 3&4 Name	
	Exposed to concentrate prior to dilution? Y N U X NA		Exposed to concentrate prior to dilution? Y N U NA		dilution? Y N	Exposed to concentrate prior to dilution? Y N U NA	
	Formulation		Formulation		Formulation	Formulation	
Row 3 Incident Circumstances	Evidence label directions were not followed? Yes surface water, com building/office, for (specify crop) righ highway). agricult Applicator certified PCO? Yes No U X		industrial, nurser commercial turb ce, forest/ woods, right-of-way (ra	y/greenhouse, f, agricultural	Situation (act of using prod include mixing/loading, ree transportation, repair/ main application equipment, man formulating). See MRPC in (next page)	ntry, application, tenance of ufacturing/	
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff) See MRPC incident report (next page)	Brief descrip	tion of incident c	ircumstances. S	See MRPC incident report	(next page)	

Substance:	Roundup Herbicide from Monsanto					
	Ranger Pro Herbicide from Monsanto					
Serial Number:	32364014					
Date:	07/16/2016					
Medical Outcome:	Major Effect H-B					
EPA Reg. No.	524-445 524-517					
Active Ingredients:	Glyphosate 41% Glyphosate 41%					
State:	Missouri					
History and Notes:	Woman calling about her father, stating he uses herbicides at work and sprays for several hours per day. The man has been having abdominal pain and weakness. He has been evaluated in their local hospital and released. The caller states his signs and symptoms improved after he was hospitalized for a few days. The caller states he uses Roundup quite a bit and other herbicides, but she doesn't know which specific products are used. He also occasionally uses insecticides but has not used for weeks or months. MRPC discussed the product toxicity. The symptoms do not correlate with the expected response to the product but unable to rule out other products or causes for symptoms. Caller declined any follow-up call. Advised to call back with questions or concerns or more information about the products used. A call received from the man's spouse and the man himself, 2 weeks later. The man sprayed Ranger Pro from an air conditioned cab of a tractor 2 months ago. He also used Remedy mixed with 2-4 D about 3 weeks ago. He has been spraying for years but is very upset stating there is information all over the web about lawsuits from people suffering all kinds of organ failure from its use. Symptoms started about July 5th, he was hospitalized. He has had weakness, atrial fibrillation, vomiting, bloating, dyspnea, and trouble eating until he was given a water pill. MRPC discussed the product toxicity. The symptoms do not correspond with the expected response to the products; concern for possible					

W. Jr.

misinterpretation of symptoms and unable to rule out other products or causes for symptoms. MRPC offered to speak with the man's treating physician concerning glyphosate; offered the Barnes toxicology clinic phone number. Advised if symptoms worsen, to go back to ED to be re-evaluated. Caller states he may be going to the Mayo Clinic on Monday. MRPC offered for the man to speak directly to Director of MRPC this week. The man accepted.

A call received from the spouse and the man 2 days later, wanting to discuss the man's illness, recent admission and release from the hospital and his use of farm chemicals for years. The man has been in agriculture for many years and has sprayed all different types of chemicals including, paraguat and insecticides, 2, 4-D, brush killers, Roundup, Ramrod, and Lesco products. He sprayed Roundup this summer. For most of his years, he worked in an open cab tractor with a field sprayer. The caller has asked his MD to look into these chemicals as source of his current symptoms. The man states he has been sick for the past several months with a variety of conditions including: atrial fibrillation, kidney and liver problems, and weakness. He was recently in the hospital for 2 weeks. MRPC discussed the product toxicity. The symptoms do not correlate with the expected response to the products but difficult to fully assess with the number of chemicals, unknown formulations and degree of current medical conditions. MRPC advised to have MD contact MRPC to obtain a toxicology consult, advised contacting Washington University Barnes toxicology clinic, and to contact the EPA.

The director of the MRPC contacted the man who states he has spoken with the Washington University Toxicology Clinic. He will be faxing his hospital records to them and is lining up an appointment for 8/12/16. No further follow-up obtained.

Provide all known, required information. If required data field information is unknown, designate as such in appropriate area. Row 1 Reporter Name Submission Contact person (if different than reporter) Internal ID date. 32365563 Administrative Simone Seifert-Higgins September Joy Thompson Data 1,2016 Address Address Monsanto Company Missouri Regional Poison Center (MRPC) Mail Stop C3NA 7980 Clayton Road, Suite 200 800 N Lindbergh Blvd. St. Louis, MO 63117 St. Louis, MO 63167 Phone # (314) 694-1538 Phone # (314) 772-8300 Incident Status: Location and date of incident. Date registrant Was incident part of larger study? Y New X Update (City, County, State) became aware of $N \times U$ If update, include date State: Missouri incident. of original submission. Date: 7/28/2016 July 2016 Row 2 EPA Registration # (Product 1) EPA Registration # (Product 2) EPA Registration # (Product 3 & 4) Pesticide(s) 524-445 Involved A.I. (s) A.L. (s) A.I. (s) Glyphosate 41% Product I Name Product 2 Name Product 3&4 Name Roundup Herbicide Exposed to concentrate prior to Exposed to concentrate prior to Exposed to concentrate prior to dilution? Y UXNA dilution? Y N U dilution? Y N U NA Formulation Formulation Formulation Evidence label Row 3 Incident site: (examples include home, Situation (act of using product): (examples directions were not yard, school, industrial, nursery/greenhouse, include mixing/loading, reentry, application, Incident followed? Yes surface water, commercial turf, transportation, repair/ maintenance of Circumstances No X U building/office, forest/ woods, agricultural application equipment, manufacturing/ Intentional misuse No (specify crop) right-of-way (rail, utility, formulating). See MRPC incident report highway). agricultural (next page) Applicator certified PCO? Yes No U How exposed: Brief description of incident circumstances. See MRPC incident report (next page) (examples include direct contact with treated surface, ingestion, spill, drift. runoff) See MRPC incident report (next page)



Substance:	Roundup Herbicide from Monsanto
Serial Number:	32365563
Date:	07/28/2016
Medical Outcome:	Moderate Effect H-C
EPA Reg. No.	524-445
Active Ingredients:	Glyphosate 41%
State:	Missouri
History and Notes:	MD calling with a 58 year old male who was using a herbicide - 2,4-d amine 4 outside without safety precautions. He came in with weakness, shortness of breath, nausea, vomiting, lacrimation, runny nose and diaphoresis. They were treating as an organophosphate (OP) poisoning since that matched his symptoms, until she found out the product was not an organophosphate. He has been responding to atropine symptomatically. Per toxicologist Dr. Tominack - this compound does not cause OP poisoning. It can cause rhabdomyolysis in very large intentional exposures. If this was the product he was using, symptoms could be related to exposure to the heat outside and improvement of symptoms more likely from the fluids and not the atropine. 2-PAM not recommended from this exposure. MD states the product cannot be verified since he got it from someone else and doesn't have the container. The MD suspects he did not have the correct name of the product. MD states the man has all of the symptoms for OP poisoning so she will continue to treat as that. MD declined OP treatment guideline. Admitting to ICU. An hour later, a MD from ICU called. Discussed toxicity expected from chlorophenoxy compounds. Advised symptomatic care. Verify if the product is correct information. MD calls back to state the tank had Roundup in it before the 2,4 D. MD thought the glyphosate was an organophosphate. MRPC discussed the toxicity of glyphosate was an organophosphate. MRPC discussed the toxicity of glyphosate. Symptoms do not correlate with the expected response to the product. On follow-up the next day, the man was very stable, awake, alert, afebrile, eating, voiding, strong extremities, up to the bathroom. No atropine doses given except early yesterday. Will probably move out of ICU today.

Row 1 Administrative Data	Reporter Name Simone Seifert-Higgins		Submission date. September 1, 2016	Contact person (if different than reporter) Joy Thompson		ter) Internal ID 32366310	
	Address Monsanto Company Mail Stop C3NA 800 N Lindbergh Blvd. St. Louis, MO 63167			Address Missouri Regional Poison Center (MRPC) 7980 Clayton Road, Suite 200 St. Louis, MO 63117 Phone # (314) 772-8300			
	Phone # (314) 694-1538	8					
	Incident Status: New _X _ Update_ If update, include date of original submission.	d date of incident. y, State) s 2016	Date registrar became award incident. July 2016	nt Was incident pa	ncident part of larger study? Y J		
Row 2	EPA Registration # (Pr	roduct 1)	EPA Registrati	on # (Product	2) EPA Registrat	tion # (Product 3 & 4	
Pesticide(s) Involved	524-445		STA Registration # (Froduct 2)				
	A.l. (s) Glyphosate 41%		A.I. (s)		A.I. (s)	A.I. (s)	
	Product I Name Honcho Herbicide		Product 2 Name		Product 3&4 N	Product 3&4 Name	
	Exposed to concentrate prior to dilution? Y N U X NA		Exposed to concentrate prior to dilution? Y N U NA		Exposed to con dilution? Y	centrate prior to N_U_NA	
	Formulation		Formulation		Formulation	Formulation	
Row 3 Incident Circumstances	Evidence label directions were not followed? Yes		l, industrial, nurser er, commercial tur fice, forest/ woods, p) right-of-way (ra unknown	nursery/greenhouse, ial turf, woods, agricultural way (rail, utility, formulating). See MRPC incident re (next page)		g, reentry, application, maintenance of manufacturing/PC incident report	
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff) See MRPC incident report (next page)	Brief descri	ption of incident c	rcumstances.	See MRPC incident rep	oort (next page)	

Substance:	Honcho Herbicide from Monsanto
Serial Number:	32366310
Date:	07/29/2016
Medical Outcome:	Moderate Effect H-C
EPA Reg. No.	524-445
Active Ingredients:	Glyphosate 41%
State:	Texas
History and Notes:	Man calling, stating on Monday, he took a rag that had diluted Honcho Concentrate on it, put it in water and wiped off his face. The caller states the Honcho dilution was approximately 4%. The caller is concerned because he now has blisters on his scalp and inside his mouth. BP was 200/100 mmhg with a fever of 104. He never put the rag in his mouth; he just wiped off face and neck. The man was seen in the ED yesterday. He was informed that he had an infection and was put on antibiotics. MRPC discussed the product toxicity. The symptoms do not correlate with the expected response to the product. Advised to continue under care of MD and stay on the antibiotics. Step daughter of the man calling several minutes later. She states he put a rag around his head yesterday that had an unknown formulation of Roundup on it 2 weeks ago. He was working out in the heat and developed fever, and high blood pressure. He was taken to the ED. The NP said that it was not heat stroke or heat exhaustion. He was given antibiotics and discharged to home. Step father does not have any rash or skin irritation. MRPC discussed the product toxicity. The symptoms do not correlate with the expected response to the product. To call MPRC as needed.

Provide all known,	required information. If requ	iired data field ir					
Administrative Data	Reporter Name Simone Seifert-Higgins		Submission date. September 1, 2016			Internal ID 32363001	
	Address Monsanto Company Mail Stop C3NA 800 N Lindbergh Blvd. St. Louis, MO 63167 Phone # (314) 694-1538			Address Missouri Regional Poison Center (MRPC) 7980 Clayton Road, Suite 200 St. Louis, MO 63117			
				Phone # (314) 772-8300			
	Incident Status: New _X _ Update If update, include date of original submission.			Date registran became aware incident. July 2016	t Was incident part of I	arger study? Y	
Row 2	EPA Registration # (Pr	oduct 1)	EPA Registration # (Product 2)		2) EPA Registration	# (Product 3 & 4	
Pesticide(s) Involved	71995-29	DIA Registration # (Froduct 2)					
	A.I. (s) Glyphosate 18% Diquat Dibromide 0.73%		A.I. (s)		A.I. (s)	A.I. (s)	
	Product 1 Name Roundup Weed & Grass Killer Concentrate Plus		Product 2 Name		Product 3&4 Name	Product 3&4 Name	
	Exposed to concentrate p	orior to X NA	Exposed to concentrate prior to dilution? Y N U NA			Exposed to concentrate prior to dilution? Y N U NA	
	Formulation		Formulation		Formulation		
Row 3 Incident Circumstances	Evidence label directions were not followed? Yes NoX U Intentional misuse No No Ves NoU X Applicator certified PCO? Yes NoU X Incident site: (examples included yard, school, industrial, nurse surface water, commercial turbuilding/office, forest/ woods (specify crop) right-of-way (rhighway). home			ry/greenhouse, f, agricultural ail, utility,	Situation (act of using prod include mixing/loading, ree transportation, repair/ main application equipment, mar formulating). See MRPC i (next page)	ntry, application, tenance of nufacturing/ incident report	
	How exposed: (examples include direct contact with treated surface, ingestion, spill, drift, runoff) See MRPC incident report (next page)	Brief descrip	ouon of incident c	ircumstances.	See MRPC incident report	(next page)	

Substance:	Roundup Weed and Grass Killer Concentrate Plus from Monsanto				
Serial Number:	32363001				
Date:	07/11/2016				
Medical Outcome:	Moderate Effect H-C				
EPA Reg. No.	71995-29				
Active Ingredients:	Glyphosate 18% Diquat Dibromide 0.73%				
State:	Ohio				
History and Notes:	At least a month or so ago, caller sprayed diluted Roundup Weed and Grass Killer Concentrate Plus (3 oz per 1/2 gallon water) while wearing shorts. Subsequently, he gradually developed a splotchy rash on his legs without bumps or itching, just discoloration. Skin may feel a little tight. His feet were also swollen for a while but not now. He doesn't remember how long after the exposure the symptoms appeared, since he sprayed on more than one occasion. He saw a doctor, who prescribed betamethasone cream that he used for around one week but stopped when it didn't help. MRPC discussed the product toxicity. The symptoms do not correspond with the expected response to the product. SPI concerned re: possible misinterpretation of symptoms and/or possible misidentification of product or mixed exposure. Advised to have the man's				